

- e) optionally, making alterations each of which is an insertion, a deletion or a substitution of an amino acid residue at one or more positions other than c),
- f) preparing the variant resulting from steps a) – e);
- g) testing the pH dependent activity of said variant; and
- h) optionally repeating steps a) - g) recursively; and
- i) selecting a variant having an altered pH dependent activity as compared to the parent amylase.

36. (Amended.) The method of claim 5 or 35, wherein said parent maltogenic alpha-amylase is at least 80% identical to amino acid residues 1-686 of SEQ ID NO:2.

37. (Amended.) The method of claim 5 or 35, wherein said parent maltogenic alpha-amylase is at least 90% identical to amino acid residues 1-686 of SEQ ID NO:2.

38. (Amended.) The method of claim 5 or 35, wherein said parent maltogenic alpha-amylase is at least 95% identical to amino acid residues 1-686 of SEQ ID NO:2.

39. (Amended.) The method of claim 5 or 35, wherein said parent maltogenic alpha-amylase is at least 98% identical to amino acid residues 1-686 of SEQ ID NO:2.

40. (Amended.) The method of claim 5 or 35, wherein said parent maltogenic alpha-amylase has the amino acid sequence of amino acid residues 1-686 of SEQ ID NO:2.